

Pre-Professional Health Veterinary Medicine Programs

The following list will take you to the curriculum maps for each potential pre-professional health major for the veterinary medicine field:

- [B.S. Biology/Pre-Veterinary Medicine](#)
- [B.S. Chemistry, Biochemistry/Pre-Veterinary Medicine](#)
- [B.S. Chemistry/Pre-Veterinary Medicine](#)
- [B.S. Molecular Biology and Biotechnology / Pre-Veterinary Medicine](#)
- [B.A. Psychology/Pre-Veterinary Medicine](#)
- [B.S. Psychology/Pre-Veterinary Medicine](#)
- [B.A. Sociology/Pre-Veterinary Medicine](#)

Tentative Four-Year Plan: BS Biology / Pre-Vet

The below is a tentative schedule and assumes the incoming student with the following placements; Pre-Calculus (Math 171) and College Writing II (ENGL 111). It is highly recommended that you consult a pre-professional faculty advisor to adapt the schedule to your particular circumstances.

Please check with any specific Veterinary program requirements not covered below. Some possible recommended courses would include the following: General Zoology, Animal Physiology, Comparative Vertebrate Anatomy, Animal Behavior, Animal Nutrition, Evolution, Wildlife Management, Fisheries, Ornithology, Herpetology Microeconomics, and Macroeconomics

Tentative Four-Year Plan: BS Biology / Pre-Vet		
Class	Fall Term	Spring Term
Freshman	BIOL 105: Freshman Biology Seminar BIOL 155: Principles of Biology I BIOL 165: Principles of Biology I Laboratory CHEM 153: General Chemistry I CHEM 163: General Chemistry I Laboratory INQ 1XX Freshman Inquiry Seminar ENG 111: College Writing <div style="text-align: right;">Credits: 15</div>	BIOL 156: Principles of Biology II BIOL 166: Principles of Biology II Laboratory CHEM 154: General Chemistry II CHEM 164: General Chemistry II Laboratory MATH 171: Precalculus PSY 211: General Psychology <div style="text-align: right;">Credits: 15</div>

Summer: Job Shadow and find clinical/volunteer experience

Sophomore	BIOL 201: Genetics BIOL 203: Cell Biology CHEM 251: Organic Chemistry I CHEM 261: Organic Chemistry I Laboratory MATH 270: Calculus I Gen Ed: NFSS 1XX <div style="text-align: right;">Credits: 15</div>	BIOL 202: Principles of Ecology BIOL 341: General Microbiology CHEM 252: Organic Chemistry II CHEM 262: Organic Chemistry II Laboratory Gen Ed: PSY 354 Abnormal Psych -OR- PSY 260 Developmental Psych <div style="text-align: right;">Credits: 14</div>
-----------	--	---

Summer: Job Shadow, clinical/volunteer experience, and GRE Prep

Junior	BIOL 251: Human Anatomy & Physiology I BIOL 261: Human Anatomy & Physiology I Lab PH 251: General Physics I BCHM 453: Biochemistry SOC 211: Principles of Sociology NFSS 111: Health Education <div style="text-align: right;">Credits: 16</div>	BIOL 252: Human Anatomy & Physiology II BIOL 262: Human Anatomy & Physiology II Lab PH 252: General Physics II BIOL Elective (BIOL 300+) MATH 221: Elem. Applied Stats Gen Ed: English <div style="text-align: right;">Credits: 17</div>
--------	--	--

Summer: Take GRE and Submit Application

Senior	BIOL Elective (BIOL 300+) BIOL Elective (BIOL 300+) COM 113 Public Speaking Gen Ed: Elective (as needed) Gen Ed: Elective (as needed) <div style="text-align: right;">Credits: 15-17</div>	BIOL Elective (BIOL 300+) Gen Ed: Elective (as needed) Gen Ed: Elective (as needed) Gen Ed: Elective (as needed) Gen Ed: Elective (as needed) <div style="text-align: right;">Credits: 15-16</div>
--------	---	---

Tentative Four-Year Plan: BS Chemistry, Biochemistry Concentration / Pre-Vet

The below is a tentative schedule and assumes the incoming student with the following placements; Pre-Calculus (Math 171) and College Writing II (ENGL 111). It is highly recommended that you consult a pre-professional faculty advisor to adapt the schedule to your particular circumstances.

Please check with any specific Veterinary program requirements not covered below. Some possible recommended courses would include the following: General Zoology, Animal Physiology, Comparative Vertebrate Anatomy, Animal Behavior, Animal Nutrition, Evolution, Wildlife Management, Fisheries, Ornithology, Herpetology Microeconomics, and Macroeconomics

Tentative Four-Year Plan: BS Chemistry, Biochemistry Concentration / Pre-Vet		
Class	Fall Term	Spring term
Freshman	CHEM 151: Principles of Chemistry I CHEM 161 Principles of Chemistry I Laboratory BIOL 155: Principles of Biology I BIOL 165: Principles of Biology I Laboratory ENG 111: College Writing MATH 171: Precalculus ENG 11: College Writing <div style="text-align: right;">Credits: 16</div>	CHEM 152: Principles of Chemistry II CHEM 162 Principles of Chemistry II Laboratory MATH 270: Calculus I INQ 1XX: Freshman Seminar PSY 211: General Psychology <div style="text-align: right;">Credits: 14</div>

Summer: Job Shadow and find clinical/volunteer experience

Sophomore	CHEM 251 Organic Chemistry I CHEM 261 Organic Chemistry I Lab MATH 271 Calculus II PH 251 General Physics I Gen Ed: Psychology course, PSY 260 –OR- PSY 354 <div style="text-align: right;">Credits: 15</div>	CHEM 252 Organic Chemistry II CHEM 262 Organic Chemistry II BIOL 203 Cell Biology OR BIOL 201 Genetics PH 252 General Physics II SOC 211: Principles of Sociology <div style="text-align: right;">Credits: 14</div>
-----------	--	---

Summer: Job Shadow, clinical/volunteer experience, and GRE Prep

Junior	CHEM 353: Analytical Chemistry I CHEM 363: Analytical Chemistry I Laboratory BCHM 453: Biochemistry I BCHM 463: Biochemistry I Lab BIOL 251: Anatomy and Physiology I BIOL 261: Anatomy and Physiology I Laboratory NFSS 111: Health Education <div style="text-align: right;">Credits: 14</div>	CHEM 358: Analytical Chemistry II CHEM 368: Analytical Chemistry II Laboratory BCHM 454: Biochemistry II BIOL 341: General Microbiology Gen Ed: English COM 113 Public Speaking <div style="text-align: right;">Credits: 17</div>
--------	---	---

Summer: Take GRE and Submit Application

Senior	CHEM 354: Physical Chemistry I CHEM 364: Physical Chemistry I Lab BIOL 483: Molecular Biology Gen Ed: Elective (as needed) Gen Ed: Elective (as needed) Gen Ed: NFSS 1XX Credits: 13	CHEM 470: Chemistry Seminar CHEM 265: Inorganic Chemistry I CHEM 266: Inorganic Chemistry I Laboratory Gen Ed: Elective (as needed) Gen Ed: Elective (as needed) Credits: 17
--------	--	---

Tentative Four-Year Plan: BS Chemistry / Pre-Vet

The below is a tentative schedule and assumes the incoming student with the following placements; Pre-Calculus (Math 171) and College Writing II (ENGL 111). It is highly recommended that you consult a pre-professional faculty advisor to adapt the schedule to your particular circumstances.

Please check with any specific Veterinary program requirements not covered below. Some possible recommended courses would include the following: General Zoology, Animal Physiology, Comparative vertebrate Anatomy, Animal Behavior, Animal Nutrition, Microeconomics, and Macroeconomics

Tentative Four-Year Plan: BS Chemistry / Pre-Vet		
Class	Fall Term	Spring Term
Freshman	CHEM 151: Chemical Principles I CHEM 161: Chemical Principles Lab MATH 171: Precalculus BIOL 155: Principles of Biology I BIOL 165: Principles of Biology I Lab INQ 1XX: Freshman Inquiry Seminar <div style="text-align: right;">Credits: 15</div>	CHEM 152: Chemical Principles II CHEM 162: Chemical Principles. II Lab MATH 270: Calculus I BIOL 156: Principles of Biology II BIOL 166: Principles of Biology II Lab ENG 111: College Writing <div style="text-align: right;">Credits: 15</div>

Summer: Job Shadow and find clinical/volunteer experience

Sophomore	CHEM 251: Organic Chemistry I CHEM 261: Organic Chemistry I Lab MATH 271: Calculus II PH 251: General Physics I OR PH 258: Introduction to Physics I PH 268: Introduction to Physics I Lab PSY 211: General Psychology <div style="text-align: right;">Credits: 15</div>	CHEM 252: Organic Chemistry II CHEM 262: Organic Chemistry II Lab CHEM 265: Inorganic Chemistry I CHEM 266: Inorganic Chemistry I Lab PH 252: General Physics II OR PH 258: Introduction to Physics II PH 268: Introduction to Physics II Lab Gen Ed: English <div style="text-align: right;">Credits: 15</div>
-----------	---	---

Summer: Job Shadow, clinical/volunteer experience, and GRE Prep

Junior	CHEM 353: Analytical Chemistry I CHEM 363: Analytical Chemistry I Lab CHEM 366: Inorganic Chemistry II CHEM 367: Inorganic Chemistry II Lab BIOL 201: Genetics Gen Ed: Psychology course, PSY 260 –OR- PSY 354 <div style="text-align: right;">Credits: 14</div>	CHEM 358 Analytical Chemistry II CHEM 368 Analytical Chemistry II Lab CHEM 257 Organic Spectroscopy BIOL 341: Microbiology SOC 211: Principles of Sociology NFSS 111 Health Education <div style="text-align: right;">Credits: 16</div>
--------	--	---

Summer: Take GRE and Submit Application

Senior	CHEM 354: Physical Chemistry I CHEM 364 Physical Chemistry I Lab BCHM 453 Biochemistry I BCHM 463 Biochemistry Lab COM 113 Public Speaking Gen Ed: Elective (as needed) NFSS1XX Health Education <div style="text-align: right;">Credits: 15</div>	CHEM 355 Physical Chemistry II CHEM 470 Chemistry Seminar Gen Ed: Elective (as needed) Gen Ed: Elective (as needed) Gen Ed: Elective (as needed) <div style="text-align: right;">Credits: 15</div>
--------	---	---

Tentative Four-Year Plan: BS Molecular Biology and Biotechnology / Pre-Vet

The below is a tentative schedule and assumes the incoming student with the following placements; Pre-Calculus (Math 171) and College Writing II (ENGL 111). It is highly recommended that you consult a pre-professional faculty advisor to adapt the schedule to your particular circumstances.

Please check with any specific Veterinary program requirements not covered below. Some possible recommended courses would include the following: General Zoology, Animal Physiology, Comparative Vertebrate Anatomy, Animal Behavior, Animal Nutrition, Evolution, Wildlife Management, Fisheries, Ornithology, Herpetology Microeconomics, and Macroeconomics

Tentative Four-Year Plan: BS Molecular Biology and Biotechnology / Pre-Vet		
Class	Fall Term	Spring Term
Freshman	BIOL 105: Freshman Biology Seminar BIOL 155: Principles of Biology I BIOL 165: Principles of Biology I Laboratory CHEM 153: General Chemistry I CHEM 163: General Chemistry I Laboratory INQ 1XX: Freshman Inquiry Seminar ENG 111: College Writing Credits: 15	BIOL 156: Principles of Biology II BIOL 166: Principles of Biology II Laboratory CHEM 154: General Chemistry II CHEM:164: General Chemistry II Laboratory MATH 171: Precalculus PYSH 211: General Psychology Credits: 15

Summer: Job Shadow and find clinical/volunteer experience

Sophomore	BIOL 201: Genetics BIOL 203: Cell Biology CHEM 251: Organic Chemistry I CHEM 261: Organic Chemistry I Laboratory Gen Ed: English NFSS 111: Health Education Credits:15	BIOL 341: General Microbiology CHEM 252: Organic Chemistry II CHEM 262: Organic Chemistry II Laboratory Math 270: Calculus SOC 211: Principles of Sociology Credits: 15
-----------	--	--

Summer: Job Shadow, clinical/volunteer experience, and GRE Prep

Junior	BIOL 251: Anatomy and Physiology I BIOL 261: Anatomy and Physiology I Laboratory PH 251: General Physics I	BIOL 252: Anatomy and Physiology II BIOL 262: Anatomy and Physiology Laboratory II PH 252: General Physics II MATH 221: Statistics
--------	--	---

	BCHM 453: Biochemistry BCHM 463: Biochemistry Lab BIOL 483: Molecular Biology Credits: 16	COM 113 Public Speaking Credits: 15
--	--	--

Summer: Take GRE and Submit Application

Senior	BIOL Elective (BIOL 300+) BIOL Elective (BIOL 300+) Gen Ed: Elective (as needed) Gen Ed: Elective (as needed) Gen Ed: Elective (as needed) Credits: 15-16	BIOL 485: Biotechnology BIOL 450: Cell Physiology Gen Ed: Elective (as needed) Gen Ed: Elective (as needed) Gen Ed: NFSS 1XX Credits: 15
--------	--	---

Tentative Four-Year Plan: BA Psychology/Pre-Veterinary Medicine

The below is a tentative schedule and assumes the incoming student with the following placements; Pre-Calculus (Math 171) and College Writing II (ENGL 111). It is highly recommended that you consult a pre-professional faculty advisor to adapt the schedule to your particular circumstances.

Please check with any specific Veterinary program requirements not covered below. Some possible recommended courses would include the following: General Zoology, Animal Physiology, Comparative Vertebrate Anatomy, Animal Behavior, Animal Nutrition, Evolution, Wildlife Management, Fisheries, Ornithology, Herpetology Microeconomics, and Macroeconomics

Tentative Four-Year Plan: BA Psychology/Pre-Veterinary Medicine		
Class	Fall Term	Spring Term
Freshman	BIOL 155: Principles of Biology I BIOL 165: Principles of Biology I Laboratory ENG 110 or 111: Writing PSY 211: General Psychology SPAN 151/FR 151: Spanish I/French I INQ 1XX Freshman Inquiry Seminar Credits: 16	BIOL 156: Principles of Biology II BIOL 166: Principles of Biology II Laboratory MATH 171: Pre-calculus ENG 111 or advanced writing course PSY 310: Developmental Psychology SPAN 152/FR 152: Spanish II/French II Credits: 17

Summer: Job Shadow and find clinical/volunteer experience

Sophomore	CHEM 153: General Chemistry I CHEM 163: General Chemistry I Laboratory MATH 270: Calculus I PH 251: General Physics I PSY 301: Statistics SPAN 251/FR 251: Spanish III/French III Gen Ed: NFSS 1XX Credits: 18	CHEM 154: General Chemistry II CHEM 164: General Chemistry II Laboratory PH 252: General Physics II PSY 311: Research Methods PSY 354: Abnormal Psychology SPAN 252/FR 252: Spanish IV/French IV NFSS 111: Health Education Credits: 18
-----------	---	--

Summer: Job Shadow, clinical/volunteer experience, and GRE Prep

Junior	CHEM 251: Organic Chemistry CHEM 261: Organic Chemistry Laboratory MATH 271: Calculus II PSY 355: Social Psychology PSY 3XX: Elective PSY 3XX: Elective Credits: 17	CHEM 252: Organic Chemistry II CHEM 262: Organic Chemistry II Laboratory PHIL 111: Critical Thinking PS 211: American Government PSY 3XX: Elective PSY Elective Credits: 16
--------	---	---

Summer: Job Shadow, clinical/volunteer experience, and GRE Prep

Senior	ECON 221 or 222: Micro or Macro Economics PHIL 212: Ethics PSY 470: Senior Seminar PSY Elective BCHM 453: Biochemistry BCHM 463: Biochemistry Lab Credits: 16	AH 101: Medical Terminology COM 113 Public Speaking Gen Ed: Elective (as needed) Gen Ed: Elective (as needed) Gen Ed: Elective (as needed) Credits: 15
--------	---	---

Summer: Take GRE and Submit Application

Note – This tentative academic plan assumes that the required course for physical therapy programs will not be completed until after graduation. Thus the student will apply after graduation and have a gap/push year before matriculating into a physical therapy program. Please consult your pre-professional advisor for the feasibility of completing the physical therapy requirements in three years and thus apply before graduation.

Tentative Four-Year Plan: BS Psychology/Pre-Veterinary Medicine

The below is a tentative schedule and assumes the incoming student with the following placements; Pre-Calculus (Math 171) and College Writing II (ENGL 111). It is highly recommended that you consult a pre-professional faculty advisor to adapt the schedule to your particular circumstances.

Please check with any specific Veterinary program requirements not covered below. Some possible recommended courses would include the following: General Zoology, Animal Physiology, Comparative Vertebrate Anatomy, Animal Behavior, Animal Nutrition, Evolution, Wildlife Management, Fisheries, Ornithology, Herpetology Microeconomics, and Macroeconomics

Tentative Four-Year Plan: BS Psychology/Pre-Veterinary Medicine		
Class	Fall Term	Spring Term
Freshman	BIOL 155: Principles of Biology 1 BIOL 165: Principles of Biology I Laboratory ENG 110 or 111: Writing PSY 211: General Psychology General Education Skills Course INQ 1XX Freshman Inquiry Seminar Credits: 16	BIOL 156: Principles of Biology II BIOL 166: Principles of Biology II Laboratory MATH 171: Pre-calculus ENG 111 or advanced writing course PSY 310: Developmental Psychology COM 113: Public Speaking Credits: 17

Summer: Job Shadow and find clinical/volunteer experience

Sophomore	CHEM 153: General Chemistry I CHEM 163: General Chemistry I Laboratory MATH 270: Calculus I PH 251: General Physics I PSY 301: Statistics General Education Arts and Humanities Course Gen Ed: NFSS 1XX Credits: 18	CHEM 154: General Chemistry II CHEM 164: General Chemistry II Laboratory PH 252: General Physics II PSY 311: Research Methods PSY 354: Abnormal Psychology General Education Arts and Humanities Course NFSS 111: Health Education Credits: 18
-----------	--	---

Summer: Job Shadow, clinical/volunteer experience, and GRE Prep

Junior	CHEM 251: Organic Chemistry CHEM 261: Organic Chemistry Laboratory MATH 271: Calculus II PSY 355: Social Psychology PSY 351: Biopsychology PSY 3XX: Elective Credits: 17	CHEM 252: Organic Chemistry II CHEM 262: Organic Chemistry II Laboratory PHIL 111: Critical Thinking PS 211: American Government PSY 3XX: Elective PSY 454: Personality Credits: 16
--------	--	---

Summer: Job Shadow, clinical/volunteer experience, and GRE Prep

Senior	ECON 221 or 222: Micro or Macro Economics PHIL 212: Ethics PSY 470: Senior Seminar PSY Elective BCHM 453: Biochemistry BCHM 463: Biochemistry Lab Credits: 16	AH 101: Medical Terminology PSY Elective PSY Elective Com 113 Public Speaking Gen Ed: Elective (as needed) Credits: 15
--------	---	---

Summer: Take GRE and Submit Application

Note – This tentative academic plan assumes that the required course for physical therapy programs will not be completed until after graduation. Thus the student will apply after graduation and have a gap/push year before matriculating into a physical therapy program. Please consult your pre-professional advisor for the feasibility of completing the physical therapy requirements in three years and thus apply before graduation.

Tentative Four-Year Plan: BA Sociology/Pre-Vet

The below is a tentative schedule and assumes the incoming student with the following placements; Pre-Calculus (Math 171) and College Writing II (ENGL 111). It is highly recommended that you consult a pre-professional faculty advisor to adapt the schedule to your particular circumstances.

Please check with any specific Veterinary program requirements not covered below. Some possible recommended courses would include the following: General Zoology, Animal Physiology, Comparative Vertebrate Anatomy, Animal Behavior, Animal Nutrition, Evolution, Wildlife Management, Fisheries, Ornithology, Herpetology Microeconomics, and Macroeconomics

Tentative Four-Year Plan: BA Sociology/Pre-Vet		
Class	Fall Term	Spring Term
Freshman	BIOL 155: Principles of Biology I BIOL 165: Principles of Biology I Laboratory ENG 111: College Writing SOC 211: Principles of Sociology SPAN 151/FR 151 or CIS 110: Spanish I/French I or Computer Information Processing INQ 1XX Freshman Inquiry Seminar Credits: 16	BIOL 156: Principles of Biology II BIOL 166: Principles of Biology II Laboratory ANTH 211: Humans and Culture PS 211: American Government SOC Elective SPAN 152/FR 152 or CIS 202: Spanish II/French II or Intro Event Drive Program Credits: 16

Summer: Job Shadow and find clinical/volunteer experience

Sophomore	CHEM 153: General Chemistry I CHEM 163: General Chemistry I Laboratory GEN ED: English Composition PH 251: General Physics I SOC 310 or SOC 312: Classical Social Theory or Microsociology SPAN 251/FR 251 or CIS 217: Spanish III/French III or Application of Microcomputers Credits: 16	CHEM 154: General Chemistry II CHEM 164: General Chemistry II Laboratory MATH 221: Elementary Applied Statistics PH 252: General Physics II SOC Elective SPAN 252/FR 252 or CIS 301: Spanish IV/French IV or Computer Systems Analysis Credits: 16
-----------	--	---

Summer: Job Shadow, clinical/volunteer experience, and GRE Prep

Junior	CHEM 251: Organic Chemistry CHEM 261: Organic Chemistry Laboratory PSY 211: General Psychology SOC 450 or SOC 451: Research Methods SOC Elective SOC/SW Elective	CHEM 252: Organic Chemistry II CHEM 262: Organic Chemistry II Laboratory PHIL 111: Critical Thinking MATH 171: Precalculus SOC Elective SOC/SW Elective
--------	---	--

	Credits: 16	Credits: 16
--	-------------	-------------

Summer: Take GRE and Submit Application

Senior	BCHM 453: Biochemistry I ECON 221 or 222: Micro or Macro Economics PHIL 212: Ethics GEN ED: Personal Performance MATH 270: Calculus SOC/SW Elective	COM 113: Public Speaking GEN ED: Arts & Humanities GEN ED (Social/Behavioral Science): WGS Course HPE 111: Health Education SOC Elective SOC/SW Elective
	Credits: 16	Credits: 17